

Claims

1. Roller pair for tensioning strands of filter material in the manufacture of cigarette filters with a first roller made of metal which is rotatably driven by a drive and a second roller of which the surface consists of a resilient material, the two rollers being mounted on one side on a frame or the like and the second roller being pivotally mounted about a horizontal axis perpendicular to its longitudinal axis, away from the first roller and towards the latter, and an actuation device for pivoting the second roller, characterised in that the second roller (14) can be driven by a drive (20) via a second drive shaft (46) and an articulated shaft (62) and is mounted such that the size of the gap between the rollers (12, 14) can be altered along its length to adapt to the thickness of the material.
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2. Roller pair according to claim 1, characterised in that the second roller (14) is coupled via an universal joint shaft (62) to the second drive shaft (46).
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3. Roller pair according to claim 1 or 2, characterised in that the second drive shaft (42) is coupled via a gear mechanism (30, 32) to the first drive shaft (22).
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4. Roller pair according to any of claims 1 to 3, characterised in that the second roller (14) is hollow and inside comprises a drive flange (60) which is pivotally mounted by means of a roller bearing (56, 58) about a horizontal axis to a sleeve-shaped bearing component (50) through which the articulated shaft (62) is guided and which for its part is pivotally mounted on the frame via a horizontal axis.
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5. Roller pair according to claim 3 or 4, characterised in that the frame comprises a vertical base plate (10) on which a drive motor (20) is flange mounted on one side, on the other side of the base plate (10) a gear housing (28) for the gear mechanism is attached and the second roller (14) is pivotally mounted on the outer side of the gear housing (28).
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6. Roller pair according to any of claims 3 to 5, characterised in that the gear mechanism comprises two spur gears (30, 32).
- 10 7. Roller pair according to claim 1, characterised in that the second roller (14) is driven via a separate second drive (80).
8. Roller pair according to claim 7, characterised in that a hydraulic or pneumatic motor (80) is provided as the second drive.
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9. Roller pair according to claim 7 or 8, characterised in that the second drive (80) is coupled via a freewheel mechanism (82) to the second roller (14).
10. Roller pair according to any of claims 7 to 9, characterised in that the second drive (80) is driven with a torque which compensates the frictional wear and tear of the bearing.
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